



iNcaart

Application-ready Autonomous Vehicle

iNcaart is an application-ready Autonomous Vehicle engineered for lighter payloads and rapid deployment. Each vehicle is configured with a defined top solution - such as a robotic arm, conveyor module, or application-specific payload interface-engineered to support material transfer, pick-and-place, or assisted handling tasks.

A range of established top configurations is available, alongside fully bespoke solutions developed to meet specific operational requirements. Each top is engineered and integrated as part of a complete, application-specific autonomous vehicle, optimised for reliable and repeatable operation.

Typical iNcaart configurations include:

- Mobile Conveyor (with/without elevator)
- Flow Rack (single or double)
- Robotic Arm
- Tote Lifter
- Trolley
- Fixed Shelf

Applications include:

- Manufacturing and assembly operations
- Line-side material supply
- Production cell servicing
- Pick-and-place and assisted handling

Autonomous GO enables manufacturers to deploy autonomous vehicles on a flexible pay-by-the-hour basis, with no CapEx, no installation fees, and no ongoing maintenance or licence costs. You simply pay for the hours the robot works, with a risk-free model that supports rapid trials and testing and delivers ROI within the first hour.

Specification

Dimensions Base Unit	
Length x Width x Height	950 x 730 x 315mm
Ground clearance	Body work: 40mm
Wheel Diameter	200mm
Weight (without modules)	40kg
Drive type	Differential
Centre of Gravity	Centralised within vehicle body
Payload	
Capacity	200kg
Power	
Battery	Lithium Ion 24V, 20Ah.
Charge type	Inductive plate allows for self-docking and charging
Run Time	8hrs/80% duty cycle - (dependent on load)
Speed and Performance	
Max speed (Forward and Reverse)	Up to 2m/s
Max acceleration/deceleration	0.5m/s/s
Positional Accuracy (Travel)	+/- 10mm
Positional Accuracy (Docking)	+/- 10mm
Turning circle	0mm radius (turn on the spot)
Environment	
Temp Range	Operating Temperature: 0 °C to 40 °C
Communications	
Wi-Fi	Router: 2.4 GHz and 5 GHz, 2 external antennas
Navigation	
	Natural Feature Navigation
Safety	
	Integrated safety features, emergency stop buttons and obstacle detection sensors
Construction	
Chassis	Aluminium/steel
Certification	
	UKCA

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